

DOCKET NO.: SDG-0039

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

S. Douglas Galbraith

Application No.: 10/582,314

Filing Date: September 12, 2006

For: SORPTION METHOD, DEVICE, AND SYSTEM

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

DATE OF DEPOSIT: January 12, 2007

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

TYPED NAME: Elizabeth A. McLoud

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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).



In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date

of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☒ Copies of reference numbers **10 - 14** listed on the attached Form PTO-1449 are enclosed herewith.

- ☐ Copies of reference numbers - on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

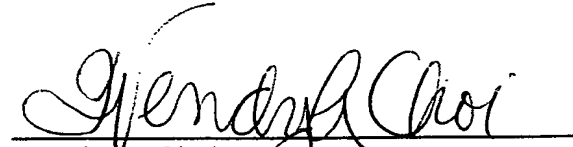
- ☒ Copies of references **1 - 9 and 15 - 66** are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number **10/730,278**, filed **December 9, 2003** for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

- ☐ The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: January 12, 2007


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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. SDG-0039	Application No. 10/582,314
	Applicant S. Douglas Galbraith	
	Filing Date September 12, 2006	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	
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2	Collins, P. et al., "Creating High Performance Conductive Composites with Carbon Nanotubes", www.Hyperioncatalysis.com , <i>Materials Managers Symposium</i> , June 2004 , 8 Pages	
3	Fuhr, G. et al., "Travelling Wave-Driven Microfabricated Electrohydrodynamic Pumps for Liquids", <i>J. Micromech. Microeng.</i> , 1994 , 217-226	
4	Gitlin, I. et al., "Pumping Based on Transverse Electrokinetic Effects", <i>Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, U.S.A.</i> 15 pages	
5	Judkins, R.R. et al., "CO ₂ Removal from Gas Streams using a Carbon Fiber Composite Molecular Sieve", <i>8th Conference on Fundamentals of Absorption</i> , May 2004 , 14 pages	
6	Kong, M.G. et al., "Wave Form to Produce most Efficiency Discharges", <i>Dept. of Electronic and Electrical Engineering</i> , http://www.ee.ualberta.ca/icops2002/programest/1A.htm , April 20, 2004 , 1 page	
7	Ter Brake, H.J.M. et al., "Vibration Free 5K Sorption Cooler" for ESA's Darwin Mission", <i>University of Twente, Faculty of Applied Physics, MESA Research Institute, Cryogenics</i> , Feb 2002 , 42(2), 14 pages	
8	Wang, R.Z. et al., "Adsorption Mechanism and Improvements of the Adsorption Equation for Adsorption Refrigeration Pairs", <i>International Journal of energy Research</i> , 1999 , 23, 887-898	
9	Roth, J.R., "Subsonic Plasma Aerodynamics Using Paraelectric and Peristaltic Electrohydrodynamic (EHD) Effects", <i>Department of Electrical and Computer Engineering, University of Tennessee, Knoxville</i> , Presented at the 29th IEEE International Conference on Plasma Science , May 26-30, 2002	
10	Curtis, F.W., <i>High-Frequency Induction Heating</i> , <i>Lindsay Publications</i> , 1987 , 12-15 and 218-220 (Chapter IX)	
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12	Hubble, J., "Biochemical Separations – Adsorption and chromatographic separations," www.bath.ac.uk/~cesjh/adsorb.htm , downloaded from the Internet on October 6, 2006 , 1-32	
13	Feng, C., et al., "Breakthrough and desorption characteristics of a microtrap," <i>J. of Microcolumn Separation</i> , 2000 , 12(4), 267-275	

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	16	3,771,234	11/13/73	Forster, et al.	34	1	
	17	3,727,375	04/17/73	Wallace	55	2	
	18	3,730,885	05/01/73	Makrides, et al.	210	30	
	19	4,011,306	03/08/77	Fox, Jr.	423	579	
	20	4,038,050	07/26/77	Lowther	95	1	
	21	4,094,652	06/13/78	Lowther	96	143	
	22	4,114,380	09/19/78	Ceperley	60	721	
	23	4,316,233	02/16/82	Chato, et al.	361	233	
	24	4,322,394	03/30/82	Mezey, et al.	423	244.11	
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EXAMINER				DATE CONSIDERED			

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